

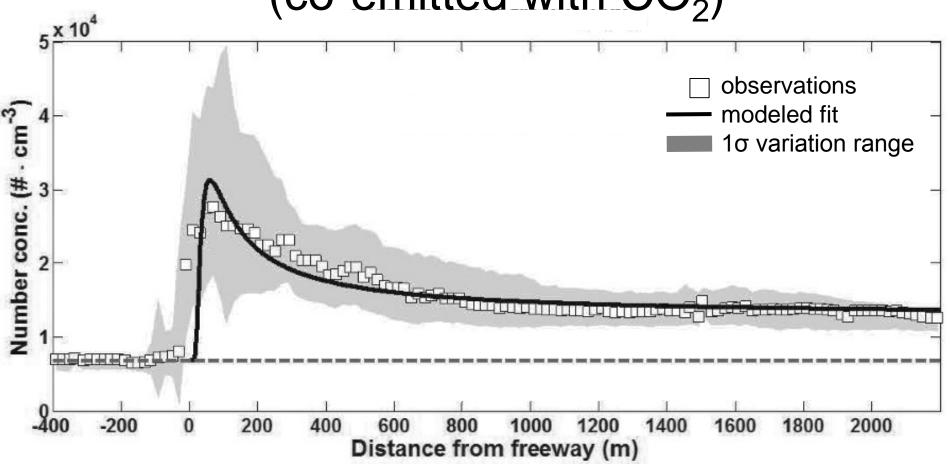
BErkeley Atmospheric Observation Network

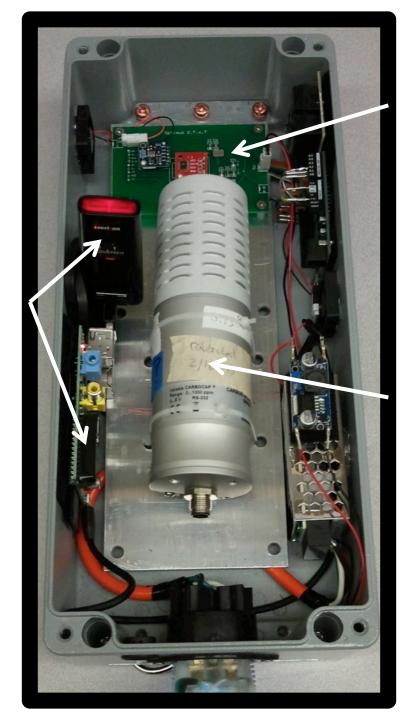
~25 independent air quality sensing "nodes" on museum and elementary school rooftops



PI: Ron Cohen

Particulate Matter (co-emitted with CO₂)



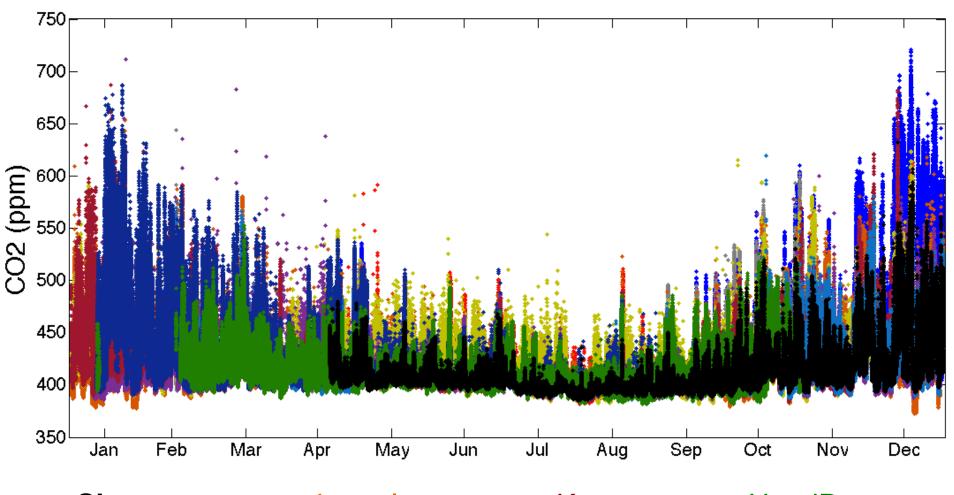


Meteorological Sensors for T, P & RH

Microcomputer w/ Cell Antenna

Vaisala GMP343 NDIR CO₂ Sensor

BEACO₂N Data Set 2013



Sites: Burckhalter

Prescott

Laurel Kaiser CollegePrep Korematsu ODowd StLiz HeadRoyce ElCerrito NOakland

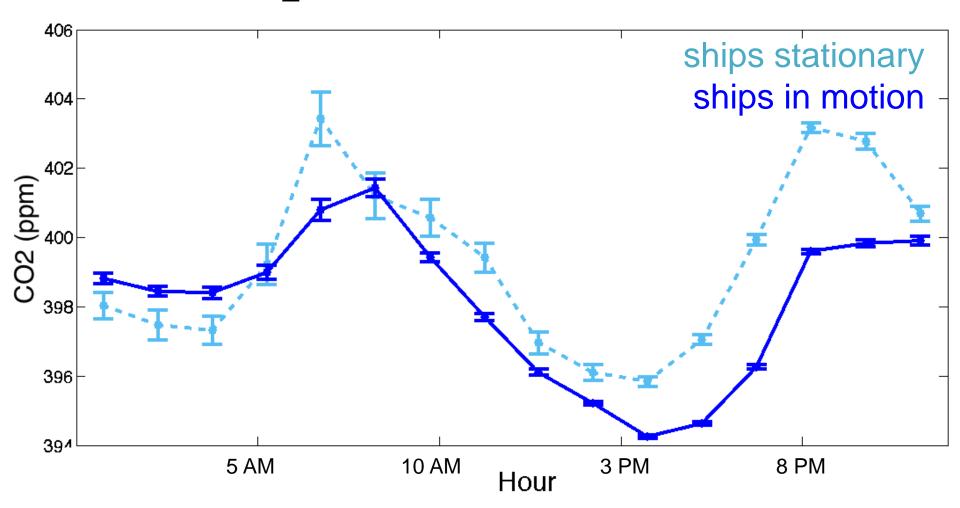




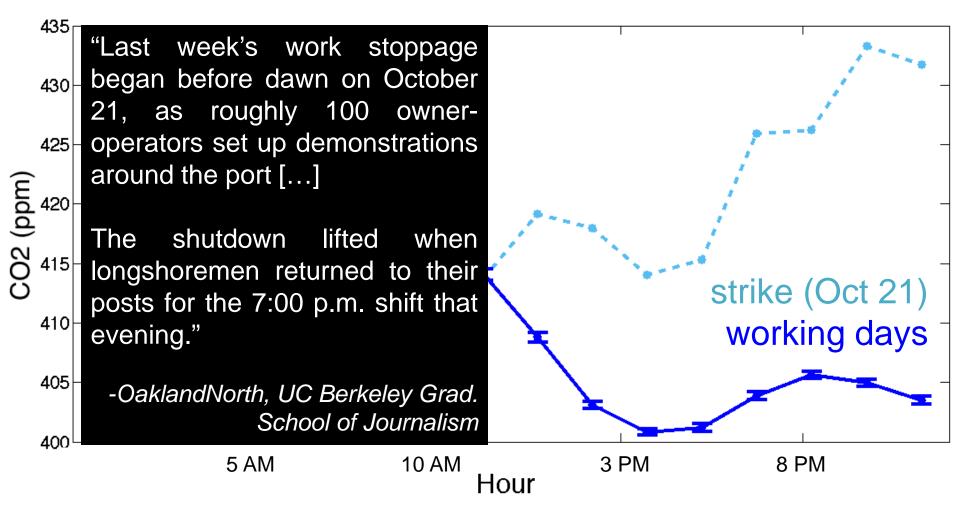
Performance	Picarro G2301	Vaisala GMP343
Accuracy	± 1 ppm	± 7 ppm
Precision	± < 0.2 ppm (5s)	± 3 ppm (2s)
Drift	± 6 ppm/yr	± 8 ppm/yr
Weight	58 lbs	0.8 lbs
Price	\$50,000-100,000	\$3,000



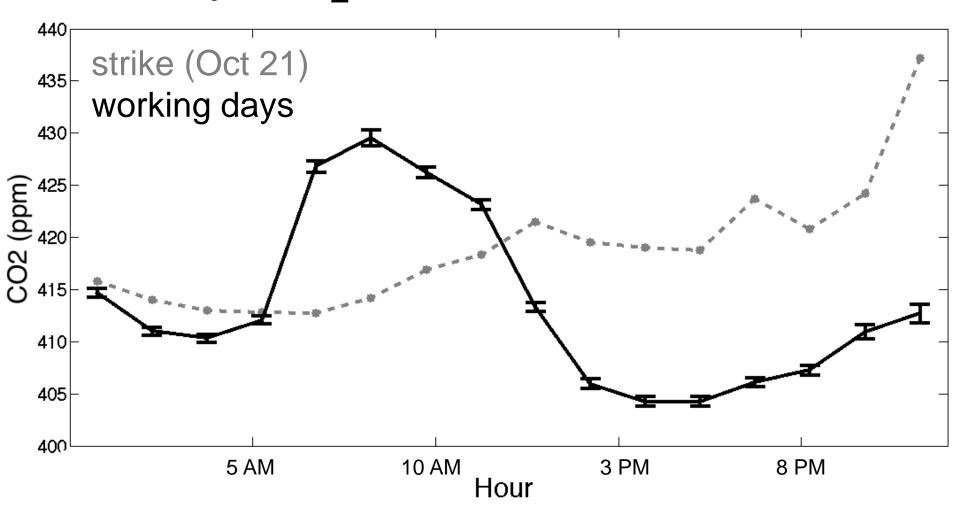
Daily CO₂ Levels at Port of Oakland

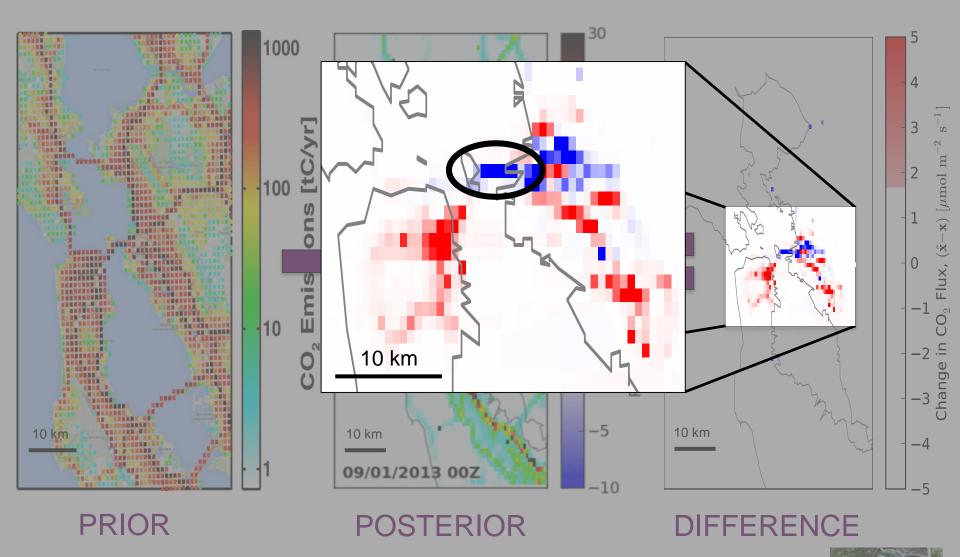


Daily CO₂ Levels at Port of Oakland



Daily CO₂ Levels Network Wide

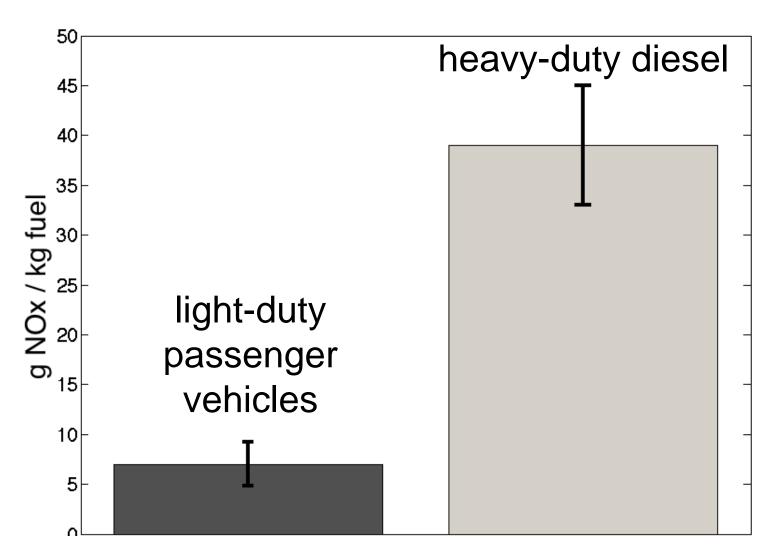




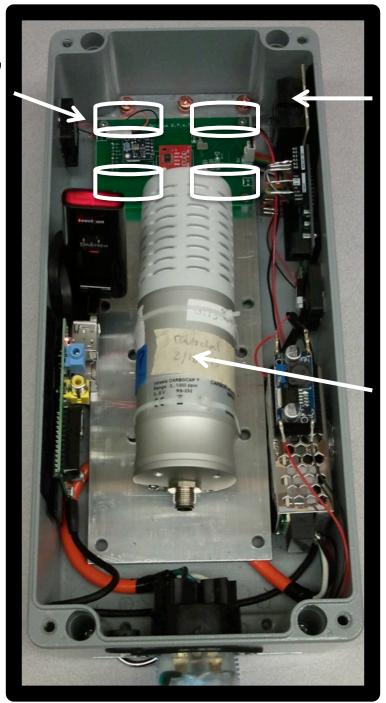


Alex Turner

1999-2000 Emissions Factors



Electrochemical O₃, NO, NO₂ & CO Sensors



Shinyei Grove Particulate Sensor

Vaisala GMP343 NDIR CO₂ Sensor

